

CLAIMS

1. A method of evaluating a degree of at least one of a damage of a hair caused by a permanent treatment and a damage of the hair caused by an oxidation treatment, based on a near infrared absorption spectrum of the hair, comprising the steps of:

obtaining a correlation between the degree of at least one of the damage of a hair caused by the permanent treatment and the damage of the hair caused by the oxidation treatment, and a result of multivariate analysis of near infrared absorption spectrum (wavenumber region: $8,000$ to $4,500\text{ cm}^{-1}$) of the hair, based on results of the multivariate analysis of the near infrared absorption spectra of two or more kinds of hairs, a degree of at least one of damages caused by a permanent treatment and by an oxidation treatment is known;

obtaining a near infrared absorption spectrum of a hair which is an evaluating object, a degree of at least one of damages caused by the permanent treatment and by the oxidation treatment is unknown; and

evaluating the degree of at least one of the damage caused by the permanent treatment and the damage caused by the oxidation treatment of the hair of the evaluating object, based on the near infrared absorption spectrum obtained in the step 2) and based on the obtained correlation.

2. The method according to claim 1, wherein the multivariate analysis is an analysis which uses a principal component analysis (PCA), SIMCA, or KNN.

3. The method according to claim 1 or 2, wherein the damage caused by the oxidation treatment is a damage caused by a bleaching treatment.

4. The method according to claim 1, wherein the method is for determining a degree of the permanent treatment and/or an oxidation treatment applied to the hair.

5. The method according to claim 1, wherein the method is for determining the hair as to its degree of likelihood to be easily damaged by the permanent treatment and/or the oxidation treatment.